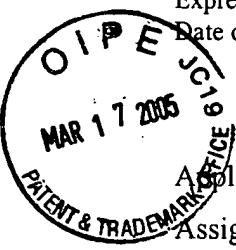


03-18-05

Attorney Docket No. 20264-502

Cgc



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Linwood Anderson      Patent No.: 6,843,824 B2  
Assignee : Cerbide      Issued: January 18, 2005  
Appl. No. : 10/008,806  
Filed : November 13, 2001  
Title : METHOD OF MAKING A CERAMIC BODY OF DENSIFIED  
TUNGSTEN CARBIDE

Certificate

MAR 24 2005

of Correction

Attention Certificate of Corrections Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Transmitted herewith for filing in the above-referenced patent application are the following documents:

- Request for Certificate of Correction of Letters Patent [2 pgs.];
- Certificate of Correction [1 pg.];
- Copy of Modified Form 1449/PTO filed on June 18, 2002 and initialed by the Examiner on April 29, 2003 [2 pgs.];
- Copy of the first page of U.S. Patent No. 6,843,824 B2 issued on January 18, 2005 [1 pg.] and
- a Return postcard.

Applicants believe that no fees are due in connection with this submission. However, the Director is authorized to credit any overpayment or charge any fees to Deposit Account No. 50-0311, Reference No. 20264-502, Customer No. 35437.

If the enclosed papers are considered incomplete, the Mail Room is respectfully requested to contact the undersigned collect at (212) 935-3000, New York, New York.

Respectfully submitted,

Ivor R. Elrifi, Reg. No. 39,529

Brian P. Hopkins, Reg. No. 42,669

Attorneys for Applicant

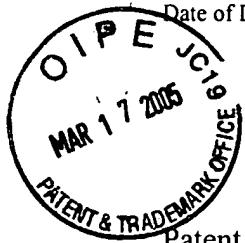
MINTZ, LEVIN, COHN, FERRIS,  
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Chrysler Center, 666 Third Avenue, 24<sup>th</sup> Floor  
New York, New York 10017

Tel: (212) 935-3000

Fax: (212) 983-3115

Dated: March 17, 2005



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent No.: **6,843,824 B2**  
Issued: **January 18, 2005**  
Applicant: Linwood Anderson  
Assignee: Carbide  
Serial No.: 10/008,806  
Filed: November 13, 2001  
For: METHOD OF MAKING A CERAMIC BODY OF DENSIFIED TUNGSTEN CARBIDE

**Attention Certificate of Corrections Branch**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST FOR CERTIFICATE OF CORRECTION OF LETTERS PATENT**

Enclosed please find a Certificate of Correction for an error, which was made by the U.S. Patent and Trademark Office in the above-referenced issued patent.

**REMARKS**

Upon review of the issued patent, the following error was discovered:

**On the title page:**

In column 1, after "(56) References Cited - U.S. Patent Documents", please insert the following reference after line 14:

-- 4,828,584 A      5/1989      Cutler      51/307--

MAR 25 2005

Patent No.: 6,843,824 B2  
Date of Patent: January 18, 2005

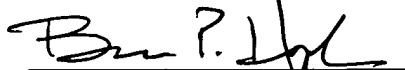
The patentee of the above-identified patent, through its attorney, hereby requests issuance of a Certificate of Correction, to correct the omission of one of the prior art references which was cited on the Modified Form 1449/PTO document, filed on June 18, 2002 and initialed by the Examiner on April 29, 2003. A copy of the initialed Modified Form 1449/PTO document listing the U.S. Patent No. 4,828,584A, issue date May 9, 1989, name of patentee: Cutler, is enclosed for your reference.

Applicant respectfully submits that the missing reference that appears in the issued patent is an error made by the U.S. Patent and Trademark Office, and Applicant respectfully requests that the attached Certificate of Correction be issued.

No fees are believed due in connection with this submission, however, the Director is hereby authorized to charge any fees due credit any overpayment of same, to Deposit Account No. **50-0311**, Reference No. **20264-502**, Customer No. **35437**.

Should the Certificates Branch wish to discuss Applicants' request for a Certificate of Correction, the Certificates Branch is invited to telephone the undersigned attorney at (212) 692-6803.

Respectfully submitted,



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Attorney(s) for Applicants  
Telephone 212/935-3000

Date: March 17, 2005

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO.: 6,843,824 B2  
DATED: January 18, 2005  
INVENTOR: Linwood Anderson

It is certified that errors appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

(56) References Cited

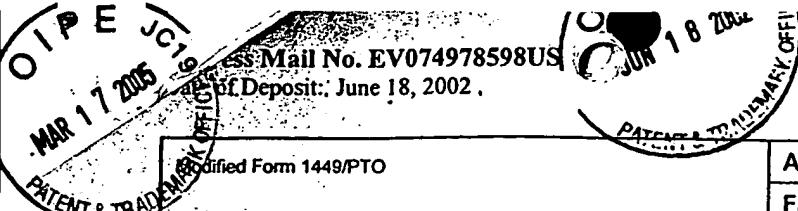
U.S. PATENT DOCUMENTS

In column 1, after line 14, insert "4,828,584 A 5/1989 Cutler 51/307"

MAILING ADDRESS OF SENDER:

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MAR 25 2005



Address Mail No. EV074978598US

Date of Deposit: June 18, 2002.

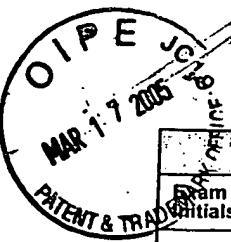
Modified Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/008,806
Filing Date	11/13/2001
First Named Inventor	Anderson
Group Art Unit	1742
Examiner Name	Not Yet Assigned
Attorney Docket Number	20264-502

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Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class
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	A2	4,056,871	1977-11-08	BATOR		
	A3	4,087,193	1978-05-02	MUNDY		
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JUN 18 2002  
U.S. PATENT & TRADES OFFICE

U.S. PATENT DOCUMENTS								
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate	
n.m	A32	5,919,428	1999-07-06	GAO, ET AL.				
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n.m	A34	6,033,789	2000-03-07	SAVEKER, ET AL.				

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Exam Initials	Cite No.	Foreign Patent Document Office	Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	No	
n.m	B1	EP	0 360 567	THE DOW CHEMICAL COMPANY	1990-03-28			
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Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.	
n.m	C1	A.G. Evans (1979). "Impact Damage Mechanics: Solid Projectiles" <i>Treatise on Materials Science and Technology</i> 16: 63-65.	
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	C3	E.A. Almond et al. (1987). "Some characteristics of Very-Fine-Trained Hardmetals" <i>Metal Powder Report</i> 42 No.7/8	
n.m	C4	Junichi Hojo, et al. (1980). "The Sinterability of Ultrafine WC Powders Obtained by a CVD Method" <i>Journal of Materials Science</i> , pages 2335-2344.	

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, U.S.S.N. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature	<i>Nolan Mau</i>	Date Considered	4/29/03
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

TRA 1655083v1



US00843824B2

(12) **United States Patent**  
Anderson

(10) **Patent No.:** US 6,843,824 B2  
(45) **Date of Patent:** Jan. 18, 2005

(54) **METHOD OF MAKING A CERAMIC BODY OF DENSIFIED TUNGSTEN CARBIDE**

(75) Inventor: Linwood Anderson, Roscoe, IL (US)

(73) Assignee: Cerbide, Clifton Park, NY (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 71 days.

(21) Appl. No.: 10/008,806

(22) Filed: Nov. 13, 2001

(65) **Prior Publication Data**

US 2003/0084752 A1 May 8, 2003

**Related U.S. Application Data**

(60) Provisional application No. 60/333,018, filed on Nov. 6, 2001.

(51) Int. Cl.<sup>7</sup> ..... C22C 29/08

(52) U.S. Cl. ..... 75/240; 501/87

(58) Field of Search ..... 75/240; 501/87

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E.A. Almond et al. (1987). "Some characteristics of Very-Fine-Trained Hardmetals" *Metal Powder Report* 42 No.7/8.

Junichi Hojo, et al. (1980). "The Sinterability of Ultrafine WC Powders Obtained by a CVD Method" *Journal of Materials Science*, pp. 2335-2344.

\* cited by examiner

**Primary Examiner**—Ngoclan T. Mai(74) **Attorney, Agent, or Firm**—Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.(57) **ABSTRACT**

A method of making tungsten carbide and a method of making a densified tungsten carbide-containing ceramic body with a transverse rupture strength greater than 300,000 psi are disclosed.

14 Claims, No Drawings